DI GLERIA, Janos; BARTFAY, Tiborne

Growth development in tomato plants as affected by auxins and microelements. Agrokem talajtan 12 no.3:343-350 0 '63.

1. Magyar Tudomanyos Akademia Talajtani es Agrokemiai Kutato Intezete, Budapest. 2. "Agrokemia es Talajtan" szerkeszto bizottsagi tagja (for di Gleria).

DI GLERIA, J.

"A history of soil research in Hungary up to 1944" by R. Balleneger, I. Finaly. Reviewed by J. Di Gleria. Acta agronom Hung 12 no. 3/4:372 '63.

1. Mitglied, Redaktionskollegium, "Acta Agronomica Academiae Scientiarum Hungaricae."

DIGNATION, A. D.

696. Alkogolism-vredny porezhitok. Padduchbala, 1964. Lie. 1974. (h-vo siravockimsveniya Degest. ASSR. desp. dem san. prosvesyabentya). 1,000 chs. F. ta.-(54-54690), 61381 + 392

30: Knichneye belogie, Vol. 1, 1955

5.3300

78256 **50V/**80-*33-3-3*7**/**47

AUTHORS:

Digonskiy, V. V., Krylov, V. N.

TITLE:

Concerning Graphite Formation

PERIODICAL:

Zhurnal prikladnoy khimii, 1960, Vol 33, Nr 3,

pp 723-729 (USSR)

ABSTRACT:

This is a discussion on the forms in which pure carbon is obtained in overlytic problems.

is obtained in pyrolytic reactions. The thermal decom-

position of hydrobarbons of type  $C_nH_{2n}$  or  $C_nH_{2n+2}$ 

does not yield pure carbon, but yields instead a high carbon content hydrocarbon  ${\tt C}_n{\tt H}_m,$  where m is as small as

desired. Single graphite layers exist only at high temperatures; under normal conditions graphite may be represented by Joined stacked layers consisting of

hexagonal crystals which are the stable form of graphite under various conditions of its formation. A formula was established to determine the mean diameter

of graphite crystals in carbon compound, depending on

Card 1/2 the percent content of hydrogen and carbon:

Concerning Graphite Formation

78236 **SOV/**80-33-3-37/47

 $d = \sqrt{\frac{4KS}{\pi}} .$ 

where K=1+3n(n-1); n=C/H (in %); S is the surface of a single hexagonal "benzene ring" of the graphite layer and equals, according to X-ray analysis, 5.217 square A. For acetylene black, containing about 1% hydrogen, n=8; hence, K=169, and d=33.5 A, which roughly approximates the result of direct X-ray measurements (21 A). There are 2 figures; and 4 Soviet references.

SUBMITTED:

May 22, 1959

Card 2/2

\$/080/60/033/007/006/020 A003/A001

AUTHORS:

Digonskiy, V. V., Krylov, V. N.

TITLE:

The Vectorial Character of the Properties of Industrial Graphitized Articles Caused by the Electromagnetic Field of a Graphitizing

Furnace

PERIODICAL: Zhurnal prikladnoy khimii, 1960, Vol. 33, No. 7, pp. 1530-1538

TEXT: The effect of an electromagnetic field on the quality of electrodes during graphitization was proved. The magnetic susceptibility of natural graphite in the direction perpendicular to the hexagonal lattices is under normal conditions -21.5 · 10<sup>-5</sup>, but in the direction parallel to the hexagonal lattices it is -0.5 · 10<sup>-6</sup>, i. e., 13 times greater. The magnetic susceptibility of industrial articles of graphite was investigated in three mutuallyperpendicular directions: lengthwise, vertically and across. Test samples 10x10x100 mm were cut from graphitized articles with an accuracy of  $\pm 0.5$  mm. The magnetochemical analysis of anisotropic substances in a non-homogeneous electromagnetic field was carried out here for the first time. It was shown that the highest value of magnetic susceptibility corresponds to the vertical

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S/080/60/033/007/006/020 A003/A001

The Vectorial Character of the Properties of Industrial Graphitized Articles Caused by the Electromagnetic Field of a Graphitizing Furnace

direction of the item to be graphitized. The cross direction has the lowest value of susceptibility. The electric conductivity of the samples in the directions mentioned was also investigated. The registance of graphite was measured within the temperature range from 25-1,400°C. The samples were heated in a laboratory high-frequency furnace of MBT -3M (MVP-2M) type. Already at a temperature of 25°C the electric conductivity of graphite rods in vertical direction is by 15% higher than that in cross direction. At temperatures above 500°C the electric conductivity in the vertical direction increases, whereas in ( the other two directions it decreases. A high-temperature roentgen-structural analysis of the samples was carried out in order to elucidate the effect of the temperature on the vectorial character of the properties in the graphitized samples. The results of the analysis are discussed. It is pointed out that the leads in new furnaces to be designed should be arranged in such a way that the samples are in a vertical position during graphitization. If the quality of the samples can be kept at the same level, the change of the leads arrangement makes it possible to reduce the consumption of electric energy considerably.

Card 2/3

\$\\ 080\\ 60\\ 033\\ 007\\ 006\\ 020 \$\\ 6003\\ 8001

The Vectorial Character of the Properties of Industrial Graphitized Articles Caused by the Electromagnetic Field of a Graphitizing Furnace

The effect of the electromagnetic field on the quality is the higher, the higher the power of the graphitizing furnaces. There are 4 diagrams, 1 graph, 1 photograph, 1 table and 9 references: 8 Soviet and 1 English.

SUBMITTED: December 19, 1959

Card 3/3

15.2250

25650 S/080/60/033/012/003/024 D209/D305

AUTHORS:

Digonskiy, V.V., and Krylov, V.N.

TILE:

The character of interplannar bonds in graphite and

their dependence on temperature

TERTODICAL: Zhurnal prikladnoy khimii, v. 33, no. 12, 1960,

2638 - 2643

TEXT: In their earlier work the authors described the graphite lattice as a polyvalent radical, whose existence was found possible at high temperatures. They also showed that, on cooling, an association of radicals occurred with the formation of chemical bonds resulting from the unsatisfied valencies of carbon atoms in the adjacent graphite layers. Since such a theory of graphite crystal formation has not been accepte, the authors found it necessary to continue the investigations to prove the existence of chemical bonding between carbon atoms of the adjacent layers. It is known that the conductivity of metals, having a characteristic metallic

Card 1/6

25650 S/080/60/033/002/003/024 D209/D305

The character of interplannar ...

bonding between atoms, decreases as the temperative increases. In the case of graphite the conductivity along the layers increases with increasing temperature. This fact may be explained by the rupture of the interplannar chemical bonds, thereby liberating the valency electrons and increasing the number of current carriers (conductivity electrons). The common representations of space lattice of graphite give no indication of chemical bonding between carbon atoms of the adjacent layers. This, according to the authors should be rectified. In Figs. 1 and 2 the structures of graphites I and II are represente as they should be when chemical bonding is present. It is known that both articial and natural graphites contain 80 % of structure I and 14 % of structure II, the remaining 6 % being some other structure. The main difference between graphites I and II is that in the crystal of graphite II, the lattices are repeated every two layers and the graphite I every other layer In graphite I carbon atoms between adjacent layers are chemically bonded, the distance between them being 3.35 %. The bonds alternate in such a manner that a carbon atomain any lattice is bon-

Card 2/6

25650 \$/080/60/033/012/003/024 D209/D305

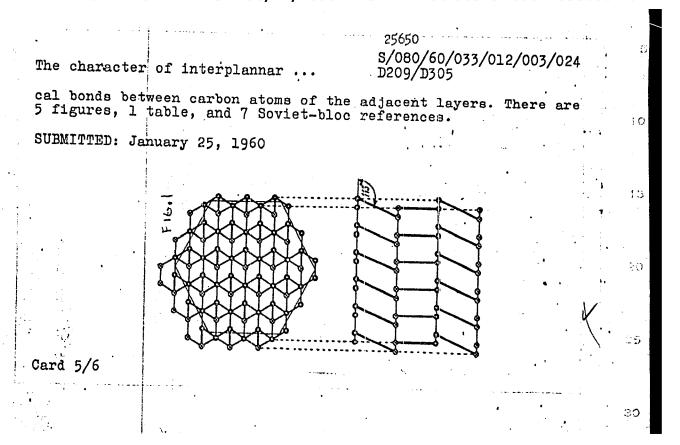
The character of interplannar ...

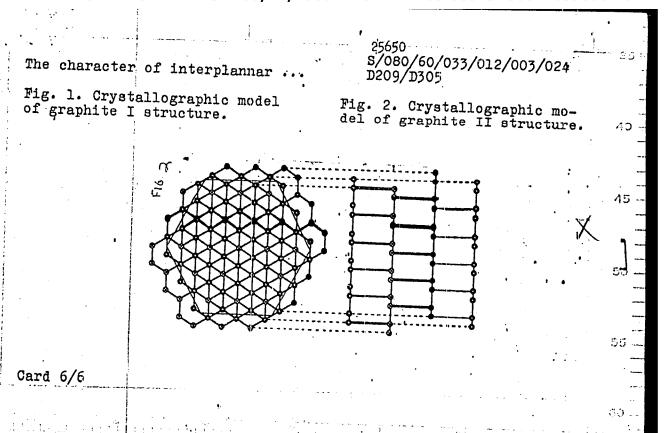
ded through one bond with a carbon atom of the upper and the lower layers. The direction of the four valency bonds of each carbon atom are characterized by the angles between the bonds, being equal to 120°, 120°, 120°, 90°, 90°. The structure of graphite II on the other hand resembles that of diamond if the latter is examined along one of the diagonals of its unit cell. The distribution of interplannar chemical bonds in graphite is assumed to alternate at an angle of 113°. Only under such conditions can the valency of carbon be equal to 4. The length of interplannar valency bond, at an angle of 113°C, is 3.63 Å and the valency angles in that layers are equal to 120°, 120°, 120°, 113°, 83°, 83°. Although chemical bonds of 3.35 and 3.63 Å are not found in any of the examined hydrocarbons the authors still maintain the bond is chemical, although the examined hydrocarbons the such one. In the second part of their work the authors provide the results of high temperature X-ray analysis of an artificial graphite mark EG-0 characterized by the resistivity of p = 9.3 · 10<sup>-4</sup> \Omega. The results are tabulated. The data was obtained by using 1 x 15 x 5 mm graphite specimen which was subjected Card 3/6

25650 S/080/60/033/012/003/024 D209/D305

The character of interplannar ...

to x-rays at temperatures of 25 -  $700^{\circ}$ C. The changes of parameter "C" were determined by measuring the decrease of diameter of the 002 diffraction ring with increasing temperature. The results showed that in the above temperature range "C" increases by 3.0 %, while according to calculated malues (using the coefficient of linear expansion of graphite) it should only increase by 0.5 %. It may be concluded, therefore, that the increase of the parameter "C" occurs as a result of compression of the graphite crystals. This compression also explains the fact that the mechanical strength of graphite increases with temperature, up to 2500°C. The above is confirmed in A.Kh. Breger and G.S. Zhdanov (Ref. 7: DAN SSSR, 28, 1940), who determined the electron density in graphite along a normal to the 001 plane. According to their results, 15 - 16 % of the total electron density is found between the layers which corresponded to one electron per each carbon atom in the graphite. The continuity of electron density distribution between the layers, as shown graphically by the above authors, shows an overlap of the electron clouds and, therefore, proves the existence of the chemi-Card 4/6





DIGONSKIY, V. V.

Cand Tech Sci - (diss) "Effect of an electromagnetic field of a graphitizing furnance on the formation of structure of carbon items in the process of graphitizing them." Leningrad, 1961.
16 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Leningrad State Order of Lenin and Labor Red Banner Mining Inst imeni G. V. Plekhanov); 150 copies; price not given; (KL, 5-61 sup, 189)

DIGOYEY. S.

Role of the bank in the development of the Kirghiz economy. Den. i kred. 16 no.2:30-34 F '58. (MIRA 11:3)

(Kirghizistan-Banks and banking)

DIGOYEV, Soslanbek Dzakhayevich; ZHAZHIYEV, S.M., red.

[Technical progress and bank credit in the industry of Kirghizistan] Tekhnicheskii progress i bankovskii kredit v promyshlennosti Kirgizii. Frunze, Kirgizgosizdat, 1964. 45 p. (MIRA 18:3)

KAMNEVA, A. I.; MUZYCHENKO, L. A.; DIGUROV, N. G.

Preparation of phthalic anhydride by the liquid phase oxidation of o-xylene. Neftekhimia 2 no.4:524-530 Jl-Ag '62. (MIRA 15:10)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D. I. Mendeleyeva.

(Phthalic anhydride) (Xylene)

DIGUROVA, T. M.

h2139 DIGUROVA, T. H. K voposu o stroyenii atmosfery i o protsessakh v oblastyakh sloya F. zhurnal zksperim. i teoret. Fiziki, 1948, Vyp. 11, c995-1011.-Bibliogr: c.1011.

SO: Letopis' Zhurnal'nykh Statey, Vol. 47, 1948

DIGUROVA, T. M.

260T54

USSR/Geology - Bitumens

2

11 Jun 53

"Some Criteria for Judging the Authigenicity or the Allothigenicity of Dispersed Bitumens," Sh. F. Mekhtiyev and T. M. Digurova, Inst of Geol im Gubkin, Acad Sci Az SSR

DAN SSSR, Vol 90, No 5, pp 861-863

On the basis of study conducted in the Caucasus, the author gives six specific characteristics of dispersed bitumens. Defines authigeneous bitumens as those produced in a given layer or formed in clays and subsequently mixed with sandy rocks of the same layer. Presented by Acad S. I. Mirinov 20 Apr 53.

Dieu Rein, Tim

MEKHTIYEV, Sh.F.; DIGUROVA, T.M.; TANRAZYAN, G.P.

On the regularity of distribution of bitumens in the lower formation of the productive stratum in Apsheron Province. Izv. AN Azerb. SSR no.9:23-32 S¹54. (MLRA 8:11)

(Apsheron Peninsula--Petroleum geology)

MEKHTIYEV, Sh.F.; DIGUROVA, T.M.

Data on the bituminosity of certain complexes in Azerbaijanian deposits. Trudy Inst.geol.AN Azerb.SSR 15:73-134 '54 (MLRA 9:1) (Azerbaijan-Bitumen)

DIGUROVA, T.M.

An experiment illustrating changes occurring in the mineral content of waters associated with petroleum. Dokl.AN Azerb.SSR 13 no.10:1087-1090 '57. (MIRA 10:12)

1. Predstavleno akademikom AN AzerSSR M.V.Abramovichem.
(Apsheron Peninsula--Water, Underground)

MEKHTIYEV, Sh.F.; DIGUROVA, T.M.; POTAPOVA, V.I.; ABRAMOVICH, M.V., red.; VASILEVSKIY, Ya.B., red.izd-va; AGAYEVA, Sh.A., tekhn.red.

[Organic components of sedimentary rocks in Azerbaijan] Organicheskie komponenty osadochnykh porod Azerbaidzhana. Baku, Izd-vo Akad.nauk Azerbaidzhanskoi SSR, 1958. 265 p. (MIRA 12:6) (Azerbaijan-Rocks, Sedimentary) (Organic matter)

DIGUROVA, T.M.

Highly mineralized formation waters in the lower part of the Balakhan' producing area. Izv.AN Azerb.SSR. Ser.geol.-geog. nauk no.2:59-65 '58. (MIRA 11:12) (Apsheron Peninsula--Oil field brines)

PASHALY, N.V.; DIGUROVA, T.M.

Distribution of organic matter in Quaternary sediments of the Mishovdag exploratory area. Azerb.neft.khoz. 37 no.12:8-10 D '58.

(Kura Lowland--Organic matter)

Dichlary, B. [Dibliev, B.], cardidat des sciences medicales

- 2 cases of Hashimoto's lymphomatous goiter. Folia med. (Flovdiv) 7 no.1:76-78 '65
- 1. Institut de Hautes Etudes Medicales "I.P.Paylov" de Playdiv, Bulgarie, Chaire de Chirurgie de Faculte avec Urologie (Directeur: prof. J. Dobrev, cand.des sciences medicales).

DIHNE, A.M. [Dykhne, A.M.]; RUMER, I.B.

Thermodynamics of the Ising-Onsager plane dipole lattice. Analele mat 16 no.2:147-164 Ap-Je 62.

DIHORU, G.

Emil Pop's Mlastinile de turba din Republica Populara Romina (Peat bogs of the Rumanian People's Republic); a book review. Rev biol 5 no.4:395-397 '60. (EEAI 10:9)

(Pop, Emil) (Peat bogs)

DONITSE, N. [Donita, N.]; DIKHORU, G. [Dihoru, G.]

Gomparative data on two associations of the white willow in the valley of the Danube River. New biol 6 no.4:383-390 161.

l. Institut biologii im. Tr. Sevulesku, Laboratoriia geobotaniki i ekologii.

DIHORU, Gh.

I. Prodan and A. Buia's Flora mica ilustrata a R.P.R. (Rumania's Small Illustrated Flora); a book review. Studii cerc.biol.veget.

11 no.4:443 59.

(Prodan, Iuliu) (Buia, Alexandru) (Rumania—Flora)

PAUKE, A. [Pauca, A.]; DIKHORU, G. [Dihoru, Gh.]; DONITSE, N. [Donita, N.]

Elements of the flora of Babadag region. Rev biol 7 no.3:309-323

1. Institut biologii im. Tr. Sevulesku Akademii RNR, Iaboratoriya geobotaniki.

DONITA, N.; DIHORU, Gh.

Cartography of forest vegetation in the Babadag region. Rev biol 7 no.3:369-379 62.

1. Institut de biologie "Traian Savulescu", Laboratoire de gesbotanique.

SANDA, V.; DIHORU, Gh.

Contributions to the knowledge of Dobruja flora. Comunicarile AR 12 no.11:1179-1184 N '62.

1. Comunicare prezentata de C.C.Georgescu, membru corespondent al Academiel R.P.R.

DIHORU, Gh. (Bucuresti)

Island of beech trees in Dobruja. Natura Biologie 14 no.3:49-52 My-Je 162.

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Conference on the methods in geobotanical laboratory research, May 21-22, 1962. Natura Biologie 16 no.4:87-88 Jl-Ag '62.

CONSTANTINESCU, O.; DIHORU, Gh.

Contribution to the knoledge of Rumanian microflora. Comunicarile Ar 13 no.10:885-890 0 163.

1. Comunicare prezentata de academician Alice Savulescu.

GEORGESCU, C.C.; DIHORU, Gh.; CIOBANU, I.R.

Taxonomic considerations on some Quercus species in the herbarium of the Museum of Natural History in Budapest. Studii cerc biol veget 15 no.4:433-452 '63.

1. Membru corespondent al Academiei R.P.R. (for Georgescu)

DIHORU, Gh.

Geobotanical characterization of the Penteleu forest reservations. Studii cerc biol s. bot 16 no.5:387-400 \*64.

1. Laboratory of Geobotany and Ecology, "Traian Savulescu" Institute of Biology.

- =

DIHORU, Gh. (Bucuresti)

Botanical lines in the Babadag Plateau. Natura Biologie 16 no.3:66-70 My-Je '64.

CONSTANTINESCU, J.; DIHORU, Gh. (Bucuresti)

Mycologic news on Hungarian flora. Natura Biologie 16 no.3:86-87 My-Je 164.

DIHORU, Gh.

Vegetation of the Lacu' dintre Pietre in the Buzaului Mountains with special regard to the Calamagnostis lanceolata association. Studii cere biol s. bot 17 no.1:35-44 164.

1. Laboratory of Geobotany, "Traian Savulescu" Institute of Biology. Submitted April 8, 1964.

#### DIHOS, Ernest

Stress effect of labor. Cas. lek. cesk. 95 no.28-29:781-784 13 July 56.

DIHOS, E.

Analysis of the clinical course of 20 cases of amniotic fluid embolism with fatal outcome. Cesk. gyn. 28 no.1/2:44-48 F '63.

1. SUDL v Trencine.

(EMBOLISM AMNIOTIC FLUID) (OXYTOCIN)

(MATERNAL MORTALITY)

DIHOS, E

SURNAME (in caps); Given Names

Country:

Czechoslovakia

Academic Degrees: /not given/

Affiliation:

ZOUNZ Martin /Abbreviation not identified/

Source:

Bratislava, Lokarsky Obzor, Vol X, No 7, 1961, pp 421-426

Data:

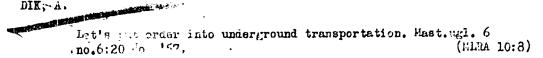
"Causes of Hemorrhage in Climacteric and Menopause."

121

"APPROVED FOR RELEASE: 06/12/2000		CIA-RDP86-00513R000410330004-6	
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	Stations."  Co-authors:	lietions but given	
	OF SECU. A., Brginser.		

LETU, N.; TEODORESCU, C.; DIJMARESCU, I.; HIRIAN, C.; FAUR, Elvira

Study of the specific consumption of explosive at the Barza mine. Rev min 14 no.12:550-556 D'63.



1.Nachal'nik uchastka vnutrishakhtnogo transporta shakhty No.204 tresta Kopeyskugol'. (Mine railroads)

DIK, E.P.

AID P - 4424

Subject

: USSR/Heat Engineering

Card 1/1

Pub. 110-a - 4/13

Author

: Przhiyalkovskiy, M. M., Kand. Tech. Sci., and E. P. Dik, Eng. All-Union Heat Engineering Institute.

Title

: Heat load distribution in a boiler with a fuel-oil

(mazut) flame.

Periodical: Teploenergetika, 6, 26-31, Je 1956

Abstract

: Research made on heat length- and sidewise distribution in a TM-200 boiler furnace with anoil flame and a frontal placement of burners is discussed. Tests proved the heat distribution to be uneven. Tables give detailed data on

heat distribution by sections. Ten diagrams.

Institution: None

Submitted : No date

FILIMONOV, A.I., kandidat tekhnicheskikh nauk; PRZHIYALKOVSKIY, M.M., kandidat tekhnicheskikh nauk; DIK, E.P., inzhener; PETROVA, I.N., inzhener.

Specific driving pressures in pipes with descending level at a steam loading of 17 to 180 atm [with summary in English]. Teplo-energetike 4 no.10:22-26 0 '57. (Mid 10:9)

1. Vsesoyuznyy teplotekhnicheskiy institut.
(Boilers)

The state of the s

DIKEP

PRZHIYALKOVSKIY, M.M., kand. tekhn. nauk; DIK, E.P., inzh.; ZHUCHKOV, Y.P., inzh.

An experimental investigation of unstable conditions of water circulation. Teploenergetika 4 no.12:21-24 D 157. (MLRA 10:11)

1. Vsesoyusnyy teplotekhnicheskiy institut.
(Feed water)

ANTONOV, A.Ya., insh.; DIK, B.P., insh.

77

Design of outdoor power plants and experience in the operation in the USA. Teploenergetika 6 no.1:85-87 Ja \*59.

(MIRA 12:1)

(United States-Electric power plants)

AUTHORS: Filimonov, A.I., Candidate of Technical Sciences, and Dik, E.P., Engineer

TITLE: The Influence of Mass Exchange on the Formation of Deposits from Steam Solutions (Vliyaniye masscobmena na obrazovaniye otlozheniy iz parcvykh rastvorov)

PERIODICAL: Teploenergetika, 1959, Nr 7, pp 69-74 (USSR)

ABSTRACT: The process of deposit formation in once-through boilers and turbines depends on the conditions. In the wet steam zones the substance is precipitated because the aqueous solution is evaporated to the concentration of saturation. In the super-heater and turbine, small particles of substances, which are already present, become coagulated, and substances dissolved in the steam crystallise out. Because of increase in steam conditions, and improvements in the quantity of feed-water and steam, a greater proportion of the total contamination is dissolved in the steam. It is, therefore, of great practical interest to study the crystallisation of substances from a single-phase steam solution in super-heater tubes and turbines. Simple

The Influence of Mass Exchange on the Formation of Deposits from Steam Solutions

> equations of crystallisation are formulated and it is shown that the rate of crystallisation may depend on diffusion or kinetic factors. In aqueous solutions both these factors may play a part, but the conditions of crystallisation of substances from steam solution are somewhat different. Precipitation from steam occurs at much higher temperatures than are usually encountered in aqueous solutions. At the higher temperatures the reactions are much faster and it may be supposed that the rate of crystallisation of substances from steam depends on mass exchange and not on kinetic processes. Moreover, molecules dissolved in steam are much less closely linked with the molecules of solvent than are ions in aqueous solutions. This also suggests that the kinetic part of the process occurs very rapidly during crystallisation from steam solutions. Accordingly, the equation for the quantity of substance precipitated assumes the form of equation (6), where B is the mass-transfer coefficient. The case of precipitation in a heated tube is

Card 2/7 then considered. Investigations on the solubility of sub-

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The Influence of Mass Exchange on the Formation of Deposits from Steam Solutions

stances in steam have established that for many of them the nature of the solubility isobar is much the same. As the steam temperature rises, the solubility of the substance diminishes, reaches a minimum, and then begins to rise again, as shown in Figure 1. It is then shown that precipitate can form on the walls of a heated tube because it is at a higher temperature than the steam flowing through it, so that the steam in direct contact with the tube walls becomes super-saturated. The rate of deposit formation is given by expression (14). The analogy between the processes of mass—and heat-transfer may be used to determine the mass—transfer coefficient. Expression (16) is then derived for the coefficient. It is difficult to use this formula because there is no experimental data or reliable method of calculating the coefficient of diffusion of substance in steam, However, for super-heated steam the diffusion and thermal Prandtl criteria differ by not more than a factor of two. Expression (18) is then derived for the brystallisation

Card 3/7

The Influence of Mass Exchange on the Formation of Deposits from Steam Solutions

head' and can be used, together with equation (13), to derive the salt content of the steam. The above equations are only valid if the substance does not crystallise in the volume of the steam. The conditions under which this requirement is fulfilled are then examined. Certain simplifying assumptions are made for this case and then expression (21) is derived as a particular solution of differential equation (18). According to formula (21), after crystallisation from the steam has started its salt content tends towards a straight line, as shown in Figure 3a; this is a graph of change of concentration of substance in the steam over the length of the heated tube. A simple criterion of the possibility of crystallisation of substance in the flow of steam is then derived. The relationship between the salt content of the steam and that of the feedwater is then considered. The examination of the problem is based on the simplified equation (21). Equation (23) is derived for the relationship and it is plotted in Figure 4. Figure 5 shows turves of the relationship between the

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The Influence of Mass Exchange on the Formation of Deposits from Steam Solutions

quantity of substance precipitated from a kilogram of steam and the concentration of the substance in the feed-water, The curves indicate that the amount of substance precipitated depends not only on the solubility in the steam but on a number of other factors. The deposition of substances on steam turbine blading is then considered. When steam expands in a turbine the solubility of substances in it decrease sharply. As soon as the solubility becomes less than the concentration of substance in the steam the sclution becomes super-saturated and crystallisation occurs, Unlike the case of a heated tube, where conditions favouring crystallisation occur only at the hot tube surface, in a turbine the whole body of steam is super-saturated, hence crystallisation could occur either on the surface or in the In practice, crystallisation in the steam may be steam. neglected both because the amount of salt is small and because it passes through the turbine very caickly. The amount of substance crystallising per unit time on the turbine blading is proportional to the coefficient of mass

Card 5/7

The Influence of Mass Exchange on the Formation of Deposits from Steam Solutions

transfer, to the surface area of the blades and nozzles and to the 'crystallisation head', that is, the difference between the concentration of substance in the steam and its solubility under the given conditions. The conditions of crystallisation are likely to be very different in different stages of the turbine and it is, therefore, advisable to consider them for each stage in turn and to summate the results, as in equation (24). The conditions of deposit results, as in equation (24). formation are then discussed. Although on straightforward theoretical grounds crystallisation would be expected to occur all over the blading, in fact deposits form mainly on the back of the blades where they are less likely to be washed off by the moving steam. Moreover, deposits are likely to be removed by vibration of the blading. Thus, the amount of deposit actually crystallising on the blades may be very much greater than the amount that remains there. It is considered possible that the effect of super-saturation of steam solutions might be used to extract substances from the cycle. In particular, it is of interest to know

Card 6/7

sov/96-59-7-15/26

The Influence of Mass Exchange on the Formation of Deposits from Steam Solutions

how much salt crystallisation can occur in the duct between the high- and low-pressure cylinders, because this would remove salt from the cycle. There are 5 figures and 5 Soviet references.

ASSOCIATION: Vsescyuznyy teplotekhnicheskiy institut (All-Union Thermo-Technical Institute)

Card 7/7

DIK, E.P., inzh.; PANASENKO, M.D., kand.tekhn.nauk

Method for calculating the duration between rinsing intervals in boilers with supercritical pressure. Elek. sta. 33 no.10: 17-19 0 '62. (MIRA 16:1) (Boilers) (Feed water)

DIK, E.P., inzh.

Method for calculating the deposits in transitory zone of boilers with supercritical parameters. Energomashinostroenia 9 no.9: 35-38 S '63. (MIRA 16:10)

SHVARTS, A.L., kand.tekhn.nauk; DIK, E.P., inzh.; DUDNIKOVA, I.P., inzh.; NADYROV, I., inzh.

Study of transient processes in a once-through type boiler with supercritical parameters. Teploenergetika 10 no.4:35-41 Ap \*63. (MIRA 16:3)

l. Vsesoyuznyy teplotekhnicheskiy institut. (Boilers)

DIK, E.P., inzh.; NADYROV, I.I., inzh.; MAN'KINA, N.N., kand.tekhn.nauk

Study of the zone and magnitude of deposits in a boiler with supercritical parameters. Teploenergetila 11 no. 1:45-49 Ja 164. (MIRA 17:5)

1. Vsesoyuznyy teplotekhnicheskiy institut.

DIE, I.

Work of the cleaning trust in Omsk. Zhil.-kom.khoz. 9 no.10: 25-26 '59. (MIRA 13:2)

1. Starshiy inzhener Upravleniya kommunal'nykh predpriyatiy i blagoustroystva g.Omska.

(Omsk--Refuse and refuse disposal)

PRISHLYAK, V.Z.; KOBLAY, D.S.; DIK, I.I.; PUZIY, Ya.S.; YAPEMENKO, I.A.; KOLESNIK, G.K.; DEGERIN, E.R.; MEL'NIK, P.A.

From the editor's mail. Sakh., prom. 36 no.9:68-70 S '62. (MIRA 16:11)

1. Khodorovskiy sakharnyy kombinat (for Prishlyak). 2. Shpanovskiy sakharnyy zavod (for Koblay). 3. Kanevskiy sakharnyy zavod Krasnodarskogo kraya (for Dik) 4. Korenovskiy sakharnyy zavod Krasnodarskogo kraya (for Puziy). 5. Sumskoy sakharnyy trest (for Yaremenko). 6. Leningradskiy sakharnyy zavod Krasnodarskogo kraya (for Kolesnik). 7. Kurskiy sovet narodnogo khozyaystva (for Degerin). 8. Zhdanovskiy sakharnyy zavod (for Mel'nik).

#### CIA-RDP86-00513R000410330004-6 "APPROVED FOR RELEASE: 06/12/2000

SOV/137-57-10-18553

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 10, p 13 (USSR)

AUTHOR: Dik, I.M.

TITLE: The Origins of the Employment of Blast-furnace Gas (Nachalo

ispol'zovaniya domennogo gaza)

PERIODICAL: Tr. In-ta istorii yestestvozn. i tekhn., 1957, Vol 9,

pp 327-335

A historical survey. Utilization and employment of blast-ABSTRACT:

furnace gas.

P.N.

Card 1/1

DIK, I.M.

Fuel balance in metallurgical plants of the Dnieper Valley group:

Izv. vys. ucheb. zav.; chern. met. 4 no.12:191-195 '61.

(MIRA 15:1)

1. Metallurgicheskiy zavod im. G.I.Petrovskogo. (Dnieper Valley--Metallurgical plants--Equipment and supplies)

DIK, I.M.

Utilization of coke-oven gas in ferrous metallurgy plants in the Dnieper Valley. Koks 1 khim. no.1:54-56 '62. (MIRA 15:2)

1. Dnepropetrovskiy metallurgicheskiy zavod.
(Dnieper Valley-Coke-oven gas)

STRUVE, E.E.; DIK, I.P.; STARTSEV, G.S.; KERSTEN, I.O., inshener, retsensent; BUTAKCV, S.Ye., doktor tekhnicheskikh nauk, redaktor; DUGINA, N.A., tekhnicheskiy redaktor.

[Ventilators and pumps; methods of selecting and designing] Ventiliatory i nasosy; metod podbora i proektirovaniia. Moskva, Gos. nauchno-tekhn.isd-vo mashimostroit.lit-ry, 1955. 138 p. (MLRA 8:9) (Fans, Mechanical) (Pumping machinery)

Fan with an impactless blade inlet. TSvet.met.29 no.6:66-69 Je '56.
(Fans, Mechanical)

(MLRA 9:9)

DIK, I.P., inzhener.

Centrifugal ventilator with vames of deuble curvature. Tepleenergetika 4 no.1:58-59 Ja 4 57. (MIRA 10:3) (Fans, Nechanical)

NEVYAZHSKAYA, Ye.A.; NIKULIN, N.Ya.; DIK, K.G.; SATANOVSKIY, P.L.

Improvement of gasification indices in gas producing plants.

Ogneupory 22 no.4:165-169 '57. (MIRA 10:6)

1. Uralenergochermet (for Nevyazhskaya and Nikulin). 2. Pervoural'skiy dinasovyy zavod (for Dik and Satanovskiy).

(Coal gasification) (Gas producers)

MK, F.

Hieght adjustment of float control valve assembly. Ahol. tekh., 27, "o 1, 1752.

DIK, ...

Ways of developing techniques of production. Whol. teki, 29, no 2, 1952.

DIK, M., inzhener.

How often should a change of lubricant be made in an ammonium compressor 4AY-15? Khol.tekh. 30 no.2:71 Ap-Je 153. (MLRA 6:7) (Compressors)

DIK, M., inshener.

Introducing finned cooling devices in storage lockers. Khol.tekh.31 no.1:29-32 Ja-Mr 154. (MLRA 7:4)

1. Moskovskiy kholodil nik no.9.
(Refrigeration and refrigerating machinery)

DIK, M., inzhener; GURAL'NIK, M., kandidat tekhnicheskikh nauk

Use of battery-operated trucks in the Moscow Cold Storage Warehouse No.9

Khol.tekh. 32 no.1:20-26 Ja-Mr 155. (MLRA 8:7)

(Fork lift trucks) (Moscow--Cold Storage warehouses--Equipment and supplies)

DIK, M. inchener.

Tanks for storing ammonia. Xhol.tekh. 33 no.3:62-64 J1-S '56. (Ammonia--Storage) (MLRA 9:10)

DIK, M., inzh.

Air separator for large refrigerating installations. Khol.tekh.
33 no.4:67-68 O-D '56. (MIRA 12:1)
(Refrigeration and refrigerating machinery)

AUTHOR: Dik, M (Engineer)

66-2-15/22

TITLE: Raising the level of railway platforms in cold stores. (Pod"yem urovnya pola zheleznodorozhnykh platform kholodil'nika)".

PERIODICAL: "Kholodil' nava Tekhnika" (Refrigeration Engineering)
1957, No.2, pp. 67 - 68 (USSR).

ABSTRACT: The unleading platforms in the No.9 cold store in Moscow were 1100 mm above the rail surface and were thereby up to 300 mm lower than the platform of the refrigerated wagons. The measures are described which were effected in the single storey and the 5-storey building of this undertaking to raise the platforms so as to improve handling conditions. The effected changes enabled to increase the capacity of simultaneous loading and unloading from 8 to 16 wagons in the 5-storey building and from 4 to 6 wagons in the single storey building. In addition, a 600 m2 non-refrigerated storage building has been erected. (see photograph). There is 1 figure.

AVAILABLE:

DIK, M., inzh.

Improvements in the construction of overhead trolley conveyors.

Khol. tekh. 35 no. 3:56 My-Je '58. (HIRA 11:7)

(Conveying machinery)

(Packing houses-Equipment and supplies)

25(5)

SOV/66-59-5-13/35

AUTHOR:

Dik, M., Engineer

TITLE:

Improved System of Blocking the Discharge Valve of a Horizontal Compressor

PERIODICAL:

Kholodil'naya tekhnika, 1959, Nr 5, pp 51-52 (USSR)

ABSTRACT:

The author refers to an article in the Nr 3 issue (1952) of above periodical describing design of an electric blocking system of the discharge valve of a compressor in the Nr 9 Refrigeration Plant in Moscow. The principle of the operation is based on the work of a mercury cut-off switch. The existing system has now been improved following the suggestion of electrician V. Grekov, comprising an end-switch of the type BKTs-411 intended for a maximum tension of 500 v and 6 a current. The article describes design and operation of the improved electric blocking system.

There is one set of diagrams.

Card 1/1

KIREYEV, P.M.; LIFSHITS, G.I.; <u>DIK. M.G.</u>; BATRAKOV, V.I.; SLAVUTSKIY, N.I., inzh.; FRID, N.Ya.; SUDOPLATOV, G.A.; FAL'KOVICH, Ya.D., starshiy tekhnolog

Worthy welcome to the 22d Congress of the CPSU. Khol. tekh. 38 no.4:5-13 Jl-Ag '61. (MIRA 15:1)

- 1. Direktor Moskovskogo khladokombinata No.3 (for Kireyev).
- 2. Glavnyy inzh. Moskovskogo khladokombinata No.3 (for Lifshits).
- 3. Glavnyy inzh. Moskovskogo kholodil'nika No.9 (for Dik). 4. Glavnyy inzh. Moskovskogo kholodil'nika No.10 (for Batrakov). 5. Glavnyy inzh. Moskovskogo kholodil'nika No.12 (for Frid). 6. Direktor Kiyevskogo kholodil'nika No.1 (for Sudoplatov).

  (Refrigeration and refrigerating machinery)

DIK, M.G.

New building of the Moscow Cold Storage Flant No.9. Khol. tekh. 38 no.6:40-44 N-D '61. (MIRA 15:1)

1. Glavnyy inzh. Moskovakogo kholodil'nika No.9. (Moscow-Cold storage warehouses)

Dump body for EKP-750 electric industrial trucks. Khol.tekh. 39
no.2:40-42 Mr-Ap 62.

(Industrial electric trucks)

DIK, M.G., inzh.

Safety device for railroad platforms of refrigerator cars. Khol. tekh. 39 no.5:54-55 S-0 62. (MIRA 16:7)

(Railroads—Safety appliances) (Refrigerator cars)

DIK, M.G., inzh.

Mechanized production line for poultry sorting and weighing. Khol. tekh. 41 no.1:49-50 Ja-F '64. (MIRA 17:3)

GURAL'NIK, Mikhail Isayevich; DIK, M.G., retsenzent; GINDLIN, I.M., retsenzent TSI/ERSON; A.L., red.;

[Mechanization of loading and unloading operations in refrigerators] Mekhanizatsiia pogruzochno-razgruzhochnykh rabot na kholodil'nikakh. Moskva, Pishchevaia promyshlennost', 1965. 138 p. (MIRA 18:10)

### DIK, Mariya Ivanovna

[For high milk production] Za vysokie nadoi moloka. Alma-Ata, Kazakhskoe gos. izd-vo, 1955. 15 p. (MLRA 9:9) (Dairying)

DIK, N.

Moskva-Donbass gruzovaia zheleznodorozhnaia magistral. /The Moscow-Donbas freight main line/. (Bol. sov. ents., 1938, v. 40, col. 415-416).

DLC: AE55.B6

SO: SOVIET TRANSPORTATION AND COMMUNICATIONS, A BIBLIOGRAPHY, Library of Congress Reference Department, Washington, 1952, Unclassified.

FIR. N. (L'rov).

Silk flowers. Prom.koob. no.8:33 Ag '57. (MIRA 10:9)

(Artificial flowers)

DIK, N. E.

DIK, N. E......Rel'ef Moskvy i Podmoskov'ia (Pod red. A.I. Solov'eva). Moskva, Geografgiz, 1949. 194 p.
Bibliography: p. 189-(195)

DLC: GB239.M6D5

SO: LC, Soviet Geography, Part II, 1951/Unclassified

- 1. DIK, N. Ye
- 2. USSR (600)
- 4. Reservirs Moscow Province
- 7. "Moscow sea." A. V. Havemann. Reviewed by N. Ye Dik, Sov. kniga no 12, 1952.

9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

BORZOV, A.A.; PETUKHOV, A.F.; GVOZDETSKIY, N.A., redaktor; DIK. N.Ye., redaktor; SOLOV'YEV, A.I., redaktor; TUSHINSKIY, G.K.; redaktor; KOSTINSKIY, D.N., redaktor; KOSHELEVA, S.M., tekhnicheskiy redaktor

[Geographical works] Geograficheskie raboty. 2-e, ispr. izd. Noskva, Gos. izd-vo Geograf. lit-ry, 1954. 523 p. (MIRA 8:4)
(Physical geography) (Geography—Study and teaching)

USSR/Geology - Erosion

Card 1/1

Pub. 45 - 11/17

Authors

Lidov, V. P.; Dik, N. We.; Nikolaevskiy, Ye. M.; Setunskaya, L. Ye.; and Khnelevaya, N. V.

Title

: Classification of recent linear forms of erosion

Periodical | Izv. AN SSSR. Ser. geog. 3, 91-99, May - Jun 1954

Abstract

! A study is made of the work of classifying forms of erosion along the following basic lines: establishing qualitative differences of the different types of forms depending on the intensity of the erosion processes. distinguishing between the types of forms in accordance with the stage of development in evolutionary sequence and showing the nature of the interacting processes on the bilges and slopes of the forms. Five USSR references (1950-1952). Tables.

Institution:

Submitted:

LIDOV, V.P.; DIK, N.Ye.; NIKOLAYEVSKAYA, Ye.M.; KHMELEVA, N.V.

Still more about boundaries of geographical regions. Izv. Vses.
geog.ob-va 86 no.1:57-66 Ja-F 54. (MLRA 7:2)
(Geography)

DIK. N. Ye.

"Maps of Physicogeographic Regionalization in the Exposition of the Division on 'Physicogeographic Oblasts of the USSR'" Lomonsov Lectures in 1956, Vest. Mesk. U., Physico Math and Natural Sciences, 4, No. 6, pp 147-160, 1956 Museum of Geography

Translation U-3,054,363

DIK, N. YE.

AVETISYAN, G.A.; DIK, N.Ye.; YERMAKOV, N.P.; YUSOV, B.V.; SHCHERBAKOV, D.I., akademik, otvetstvennyy red.; DOBRONRAVOVA, K.O., red.; KOSHELEVA, S.M., tekhn.red.

[Our homeland; an album of photographs] Nasha rodina; fotoal'bom. Moskva, Gos.izd-vo geogr.lit-ry, 1957. 309 p. [Parallel texts in Russian, German, English, and French] (MIRA 11:1) (Russia--Views)

LIDOV, V.P.; DIK, N.Ye.; NIKOLAYEVSKAYA, Ye.M.; KHMELEVA, N.V.

Bottom gullies and their development; based on studies in key areas of the right banks of the Don. Trudy Inst.lesa 44: 103-137 59. (MIRA 12:9)

DIK, N.Ye.

On M.V. Lomonosov's projected geographical expeditions. Vest. Mosk.un.Ser.5: geog. 15 no.1:67-68 '60. (MIHA 13:8)

(Lomonosov, Mikhail Vasilevich, 1711-1765)

(Geography-Study and teaching)